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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/985,820	11/06/2001	David Vale	08157.0014	4546
759	. 10/18/2004		EXAMINER	
Finnegan, Henderson, Farabow,			HO, UYEN T	
Garrett & Dunne			ART UNIT	PAPER NUMBER
1300 I Street, N	.W.		ARTUNII	PAPER NUMBER
Washington, Do	C 20005-3315		3731	

DATE MAILED: 10/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	-1-00
	09/985,820	VALE ET AL.	
Office Action Summary	Examiner	Art Unit	
	(Jackie) Tan-Uyen T. Ho	3731	
The MAILING DATE of this communication a	ppears on the cover sheet with	he correspondence address	
Period for Reply	W V IO OFT TO EVENE A MON	ITHON FROM	
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply eply within the statutory minimum of thirty (3 Ind will apply and will expire SIX (6) MONTH: tuble, cause the application to become ABAN	be timely filed 0) days will be considered timely. 5 from the mailing date of this communication. DONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 6/1	<u>15/04</u> .		
,	nis action is non-final.		
3) Since this application is in condition for allow			
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.D. 1	1, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-61 is/are pending in the application	on.		
4a) Of the above claim(s) is/are withdo	rawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-61</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	l/or election requirement.		
Application Papers			
9) The specification is objected to by the Exami	ner.		
10) The drawing(s) filed on is/are: a) a	ccepted or b) objected to by	the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corre).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached C	office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of:	gn priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
1. Certified copies of the priority docume	ents have been received.		
2. Certified copies of the priority docume	ents have been received in App	lication No	
Copies of the certified copies of the presented copies.	riority documents have been re	ceived in this National Stage	
application from the International Bure	•		
* See the attached detailed Office action for a li	ist of the certified copies not re	ceived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		nmary (PTO-413) Mail Date	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 		rmal Patent Application (PTO-152)	

DETAILED ACTION

Response to Arguments

1. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ambrisco et al. (6,007,557) in view of Ding et al. (5,879,697). Ambrisco et al. disclose a filter system as claimed and suggest the filter membrane may be coated with a non-thrombogenic material for example Heparin (col. 3, lines 10-30 and see the detail section for the filter system embodiments). Although, Ambrisco et al. fail to disclose the thickness of the coating as claimed. Ding et al. (5,879,697) disclose a drug-releasing coating, the coating is applied depending upon the coating thickness desired and the purpose of adjusting the thickness of the coating is for time control and release the drug (col. 8, line 52 to col. 9, line 6). Therefore, it would have been obvious to one having ordinary skill in the art to apply the coating on the filter as disclosed by Ambrisco et al. such that the coating within the range as claimed in order to control and release the drug at a desired level.

In regard to hydrogel or hydrophilic materials, it is well known to provide a layer including a hydrophilic polymer or hydrogel for control and release drug (See competent documentary evidence, Thompson et al. reference, col. 8). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ a hydrophilic polymer or hydrogel layer into Ambrisco et al. in view of Ding et al. in order to provide a better control and release non thrombogenic material.

In regard to claim 12, a Product-by-Process claim, this claim is not limited to the manipulations of the recited steps.

In regard to different stiffness of filter sections, Ambrisco disclose filter elements having different stiffness for example the filter in figure 35-36 of Ambrisco, the different stiffness between sections that having expanding frame 313 and sections (310) that do not have the expanding frame (313), a proximal inlet portion at the base (312) and the distal outlet portion at the sections (313). Note: "laminate construction" does not impose any structural limitations on the claims distinguishable over the device of Ambrisco in view Ding et al.. Examiner considers a filter having laminate construction being a filter with two or more layers that are attached to each other.

2. Claims 1-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniel et al. (6,171,327) in view of Thompson et al. (5,834,449) further in view of Ding et al. (5,879,697). Daniel et al. disclose a filter as claimed except for a presence of the thickness of the coating as claimed and coating including hydrophilic or hydrogel material. Thompson et al. teach a coating layer including hydrophilic materials for use in control and release drug on a medical device such as filter (col. 8). Hydogel is a well-

Application/Control Number: 09/985,820 Page 4

Art Unit: 3731

known hydrophilic material for use in control and release drug on medical surface. Ding

et al. teach a drug-releasing coating wherein the coating is applied depending upon the

coating thickness desired and the purpose of adjusting the thickness of the coating is for

time control and release the drug (col. 8, line 52 to col. 9, line 6). Therefore, it would

have been obvious to one having ordinary skill in the art at the time the invention was

made to employ the material disclose by Thompson et al. or hydrogel and adjusting the

thickness of the coating in order to control and release the non thrombogenic material or

drug a desired level. Doing so would meet all the limitation as claimed.

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to (Jackie) Tan-Uyen T. Ho whose telephone number is

(703) 306-3421. The examiner can normally be reached on MULTIFLEX Mon. to Sat.. If

attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, ANHTUAN or NGUYEN can be reached on 703-308-2154. The fax phone

number for the organization where this application or proceeding is assigned is 703-

872-9306. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system.

(Jackie) Tan-Uyen T. Ho

Patent Examiner

Art Unit 3731